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SEWAGE AND WATER WORKS CONSTRUCTION, 1962

Public Health Service,
Washington, D. C.

April 1963

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SEWAGE AND WATER WORKS CONSTRUCTION

1962

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service

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SEWAGE AND WATER WORKS CONSTRUCTION 1962

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Division of Water Supply and Pollution Control
Washington 25, D.C.

I

Related Publications

Sewage Treatment Works Contract Awards, 1952–1957
Public Health Service Publication No. 633

Sewage and Water Works Construction, 1957
Public Health Service Publication No. 608

Sewage and Water Works Construction, 1958
Public Health Service Publication No. 673

Sewage and Water Works Construction, 1959 edition
Public Health Service Publication No. 758

Sewage and Water Works Construction, 1960 edition
Public Health Service Publication No. 758

Sewage and Water Works Construction, 1961 edition
Public Health Service Publication No. 758

Public Health Service Publication No. 758
1962 Edition
April 1963

II

PREFACE

This annual report of "Sewage and Water Works Construction 1962" is published as one part of the basic data program required and authorized in Public Law 660 (as amended by Public Law 87-88), the Federal Water Pollution Control Act.

The data published herein provide a continuing and ready source of information and reference as to how successfully the national needs in municipal water supply and pollution control are being met through construction of the necessary physical facilities.

This publication also establishes important year-to-year cost trends in the national economic picture in the three types of public works construction involved. Such data are valuable not only to Federal, State and local government authorities and officials responsible for providing water supplies and for controlling pollution, but are also valuable to the building and contracting trades and to the engineering profession.

This report was prepared by William H. Mills, Jr., Assistant Sanitary Engineer (R), and Elsie M. Gibson and Florence G. Simmons, Statistical Assistants, under the direction of Richard S. Green, Sanitary Engineer Director and Chief of the Basic Data Branch, Division of Water Supply and Pollution Control.

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SECTION 1—GENERAL PRESENTATION OF SEWAGE AND WATER WORKS CONTRACT AWARDS

A. CONTRACT AWARDS—1962

Contract awards in the sewage and water works field in 1962 reached a level of more than $1.3 billion, a slight drop from the previous year's figure. The total dollar value in millions is broken down as follows:

Sewage treatment	$545.0
Collecting sewers	320.2
Water works	307.3
	$1,372.5

Contracts associated with sewage treatment were awarded at a record level, showing a 21 percent increase over the figure for 1961. Both collecting sewer and water works contract awards levels dropped moderately in 1962. Annual figures show a 16 percent drop from 1961 figures for collecting sewer contracts, and a 12 percent drop from 1961 figures for water works contracts.

Each of the above totals is based upon an identified and an apportioned figure. The identified contracts are those for which the descriptive information available clearly states a single type of construction. Those contracts that cover more than a single type are called "combination" contracts. These combination contracts are then apportioned to the sewage treatment works, collecting sewers, and water works categories on the basis of known national experience in each of these.

On a constant dollar basis, the total dollar value of contract awards in the sewage and water works fields in 1962 was less than that of 1961 by $52 million. Sewage works contracts were a record high for the eleven year period since 1952. Both collecting sewer and water works construction dropped substantially from the previous level, more than counteracting the rise in sewage treatment contracts.

A comparison of constant dollar values with current dollar values illustrates the effect of the rapid increase in construction costs.

B. METHOD OF DATA COLLECTION

The contract award data presented in this publication for the year 1962 result from the careful examination of over 25,000 contract notifications in the sewage and water works construction and related fields. All notifications of similar contracts awarded in the same geographical area are checked to reduce the chance of duplication. Certain contracts, primarily those covering sewage treatment plants, are checked and verified by the various State water pollution control agencies.

The data on which this report is based were obtained from:

1. F. W. Dodge Corporation, daily reports on construction in the sewage and water works fields in the 38 Eastern States.
2. Construction Daily Reports, McGraw-Hill Company, New York.
3. Various construction news periodicals, such as, *Construction News Bulletin, Pacific Architect and Builder, Rocky Mountain Construction, and Southwest Builder and Contractor.*

Practically all of the information for the 38 Eastern States is obtained from daily reports of the F. W. Dodge Corporation.

The data presented are composed of contracts awarded by municipalities, special districts, other governmental bodies, and various institutions, resorts, recreation centers, etc. A few contracts are included for industries where the cost of such facilities can be readily identified, and where it is possible to ascertain that the facilities are primarily for the disposal of sanitary wastes or for domestic water works facilities.

TABLE 1.—*Annual Contract Awards—Sewage Treatment Works, Collecting Sewers, and Waterworks—1957 to 1967*

[Millions of dollars]

Year	Sewage treatment		Collecting sewers		Waterworks		Total	
	Actual	1955	Actual	1955	Actual	1955	Actual	1955
1957	137	170	225	281	227	282	589	733
1958	142	206	206	304	282	311	736	821
1959	229	293	244	336	293	398	766	965
1960	301	391	301	391	396	396	998	998
1961	274	339	265	291	481	530	1,020	1,160
1962	351	355	247	255	432	410	1,030	1,020
1963	393	389	310	293	479	364	1,184	1,046
1964	403	393	330	278	394	417	1,268	1,088
1965	430	387	370	266	643	516	1,443	1,169
1966	610	550	390	298	573	600	1,572	1,448
1967	743	612	439	282	507	394	1,373	1,288

NOTES:

1. The *Engineering News-Record* Construction Cost Index is used to change actual dollars to 1955 dollars.

2. The Public Health Service sewage treatment data prior to 1962 are composed of identified contracts only. Beginning with 1962, the figures include an amount apportioned to sewage treatment works from the "combination" contracts.

3. Data on collecting sewers prior to 1957 are obtained by subtracting Public Health Service sewage treatment data from the U.S. Department of Commerce sewer data which includes sanitary and storm sewerage systems as well as sewage treatment works. Beginning with 1957, the data for collecting sewers were assembled by the Public Health Service and do not include storm sewers.

4. The waterworks data prior to 1962 are based on records maintained by the U.S. Department of Commerce. Beginning with 1962, data were obtained by the Public Health Service.

TABLE 2.—*Monthly Contract Awards—Sewage Treatment Works, Collecting Sewers, and Water Works—1967*

[Millions of dollars]

	Sewage treatment		Collecting sewers		Water works		Total	
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative
January	68.8	68.8	23.1	23.1	43.3	43.3	135.4	135.4
February	31.3	80.3	23.7	46.8	28.6	73.9	84.6	187.0
March	69.8	150.1	20.9	67.7	68.4	142.3	159.1	306.1
April	63.2	193.3	26.1	93.8	31.3	173.6	117.6	423.7
May	68.9	260.2	27.8	120.6	68.3	195.9	165.0	573.7
June	34.3	294.5	33.8	154.2	60.7	252.6	128.8	696.3
July	29.3	323.8	41.7	195.9	60.5	268.1	129.5	850.9
August	26.5	350.3	20.8	222.7	61.3	329.4	107.6	667.4
September	68.0	418.3	24.0	246.7	67.0	396.4	159.0	1,161.4
October	27.2	445.5	27.1	273.8	60.2	456.6	90.5	1,175.9
November	20.2	304.7	18.0	291.8	33.8	670.4	81.0	1,286.9
December	60.3	343.0	28.4	320.2	26.9	307.3	185.6	1,372.5

TABLE 3. *1962 Contract Awards By States*

State	Total		Sewage treatment		Sewers		Water		Combinations	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	101	14,195,700	22	3,124,000	31	5,341,700	69	5,327,741	7	162,171
Alaska	20	5,181,794	1	6,170	3	669,648	13	4,114,987	1	30,039
Arizona	50	10,471,765	3	1,294,109	33	3,920,012	35	4,408,824	7	642,561
Arkansas	61	6,376,730	37	2,329,465	12	980,120	39	2,622,330	3	871,431
California	1,229	191,172,453	117	31,003,231	335	89,733,241	669	86,262,627	75	12,201,326
Colorado	110	25,417,652	17	2,317,812	11	1,317,926	78	17,219,909	6	522,705
Connecticut	122	39,262,193	13	7,023,611	73	7,443,069	35	3,874,160	3	1,360,974
Delaware	17	2,951,760	6	1,648,305	6	291,395	4	62,536	1	45,269
District of Columbia	21	14,961,962	12	12,014,827	12	1,130,935	5	147,990	6	292,850
Florida	279	61,231,340	30	10,491,920	69	11,165,265	110	31,214,715	62	11,629,690
Georgia	127	12,973,251	16	4,398,630	25	2,093,054	62	4,123,998	24	1,799,384
Hawaii	41	10,224,452	13	6,373,310	6	980,625	16	2,736,423	4	217,812
Idaho	28	3,749,334	6	937,001	7	1,322,119	12	1,454,430	1	14,785
Illinois	412	92,299,323	93	29,353,194	165	11,040,170	147	39,829,029	27	3,027,790
Indiana	214	39,762,630	43	10,366,201	87	8,450,039	82	12,791,172	2	11,997
Iowa	172	13,998,030	42	4,999,630	66	3,018,085	63	5,282,318	3	642,561
Kansas	225	15,105,287	31	3,398,475	105	6,201,407	86	5,073,211	3	291,774
Kentucky	118	16,733,973	23	3,140,254	30	4,795,298	39	7,226,951	12	1,571,892
Louisiana	123	19,998,005	26	6,392,077	16	2,927,039	55	6,974,339	16	2,709,270
Maine	29	2,527,270	7	1,260,305	13	382,280	6	249,455	2	115,050
Maryland	117	27,092,783	23	3,305,398	69	3,209,981	63	10,709,209	263	9,614,358
Massachusetts	283	31,992,974	28	15,116,998	79	6,992,281	126	6,349,291	15	3,261,316
Michigan	300	67,741,730	42	18,373,333	109	11,337,134	158	28,573,993	67	7,279,269
Minnesota	250	30,253,729	32	4,987,512	61	8,686,695	113	11,991,354	12	6,786,917
Mississippi	117	12,278,609	33	3,786,023	17	1,760,609	56	6,259,473	13	663,798
Missouri	255	29,725,367	61	7,892,865	91	8,170,203	101	9,999,723	12	1,236,428
Montana	29	4,980,959	9	2,750,950	6	179,109	10	995,189	3	173,203
Nebraska	204	18,632,964	36	8,023,429	105	2,333,291	102	7,725,277	14	671,665
Nevada	30	6,665,229	13	2,068,298	3	179,089	10	2,254,933		
New Hampshire	32	2,029,631	8	1,454,611	6	339,611	8	226,522	2	109,497
New Jersey	241	66,950,147	31	7,273,258	165	9,906,732	29	35,547,429	27	13,203,594
New Mexico	25	4,967,326	9	2,725,895	2	39,189	6	536,456	7	726,649
New York	631	109,916,790	72	42,930,920	193	35,644,599	273	60,456,259	61	3,993,609
North Carolina	190	35,955,260	36	12,172,961	35	5,999,939	69	7,843,533	23	2,999,634
North Dakota	34	3,942,123	14	784,784	7	526,343	19	697,697	11	646,399
Ohio	629	37,929,365	31	17,966,511	169	19,626,185	294	19,992,660	26	3,992,527
Oklahoma	160	15,961,171	43	2,343,613	37	5,284,695	99	11,147,942	11	697,668
Oregon	136	14,725,211	33	6,229,760	18	2,963,963	39	3,729,980	6	802,529
Pennsylvania	695	69,464,220	114	23,613,014	160	25,814,907	191	15,695,162	33	6,211,191
Puerto Rico	12	3,981,779	10	2,697,272	1	36,134			1	149,638
Rhode Island	26	1,159,462	1	11,479	12	677,916	13	429,972		
South Carolina	65	13,232,414	25	2,689,649	11	1,955,282	22	8,969,831	5	617,643
South Dakota	45	3,399,753	10	1,112,942	12	102,722	21	952,668	2	99,697
Tennessee	138	20,994,287	31	6,162,963	41	5,130,198	72	9,199,279	7	511,325
Texas	628	97,434,481	94	14,434,464	218	16,368,139	280	62,955,869	102	10,286,619
Utah	53	3,029,432	3	1,061,102	6	1,467,205	23	2,262,894	3	297,291
Vermont	12	2,162,967	3	1,749,991			5	263,289	2	79,389
Virginia	212	25,476,952	68	7,262,004	73	6,953,907	54	6,417,720	39	4,472,943
Washington	274	44,999,286	63	22,731,400	60	9,299,617	135	11,423,994	6	604,977
West Virginia	77	12,974,957	31	8,922,420	13	1,692,389	32	3,297,369	1	56,316
Wisconsin	429	45,260,963	34	17,586,146	169	12,939,710	136	9,909,665	71	2,747,729
Wyoming	19	3,297,919	3	149,274	2	36,723	11	2,607,994	3	503,928
Total	10,200	1,372,709,919	1,972	493,333,929	3,122	293,998,926	4,320	499,342,567	1,686	119,967,598

TABLE 4.—*1962 Contract Awards (Distributed) By States*

State	Total	Sewage treatment	Sewers	Water
Alabama	[illegible]	[illegible]	[illegible]	[illegible]
Alaska	[illegible]	[illegible]	[illegible]	[illegible]
Arizona	[illegible]	[illegible]	[illegible]	[illegible]
Arkansas	[illegible]	[illegible]	[illegible]	[illegible]
California	[illegible]	[illegible]	[illegible]	[illegible]
Colorado	[illegible]	[illegible]	[illegible]	[illegible]
Connecticut	[illegible]	[illegible]	[illegible]	[illegible]
Delaware	[illegible]	[illegible]	[illegible]	[illegible]
District of Columbia	[illegible]	[illegible]	[illegible]	[illegible]
Florida	[illegible]	[illegible]	[illegible]	[illegible]
Georgia	[illegible]	[illegible]	[illegible]	[illegible]
Hawaii	[illegible]	[illegible]	[illegible]	[illegible]
Idaho	[illegible]	[illegible]	[illegible]	[illegible]
Illinois	[illegible]	[illegible]	[illegible]	[illegible]
Indiana	[illegible]	[illegible]	[illegible]	[illegible]
Iowa	[illegible]	[illegible]	[illegible]	[illegible]
Kansas	[illegible]	[illegible]	[illegible]	[illegible]
Kentucky	[illegible]	[illegible]	[illegible]	[illegible]
Louisiana	[illegible]	[illegible]	[illegible]	[illegible]
Maine	[illegible]	[illegible]	[illegible]	[illegible]
Maryland	[illegible]	[illegible]	[illegible]	[illegible]
Massachusetts	[illegible]	[illegible]	[illegible]	[illegible]
Michigan	[illegible]	[illegible]	[illegible]	[illegible]
Minnesota	[illegible]	[illegible]	[illegible]	[illegible]
Mississippi	[illegible]	[illegible]	[illegible]	[illegible]
Missouri	[illegible]	[illegible]	[illegible]	[illegible]
Montana	[illegible]	[illegible]	[illegible]	[illegible]
Nebraska	[illegible]	[illegible]	[illegible]	[illegible]
Nevada	[illegible]	[illegible]	[illegible]	[illegible]
New Hampshire	[illegible]	[illegible]	[illegible]	[illegible]
New Jersey	[illegible]	[illegible]	[illegible]	[illegible]
New Mexico	[illegible]	[illegible]	[illegible]	[illegible]
New York	[illegible]	[illegible]	[illegible]	[illegible]
North Carolina	[illegible]	[illegible]	[illegible]	[illegible]
North Dakota	[illegible]	[illegible]	[illegible]	[illegible]
Ohio	[illegible]	[illegible]	[illegible]	[illegible]
Oklahoma	[illegible]	[illegible]	[illegible]	[illegible]
Oregon	[illegible]	[illegible]	[illegible]	[illegible]
Pennsylvania	[illegible]	[illegible]	[illegible]	[illegible]
Puerto Rico	[illegible]	[illegible]	[illegible]	[illegible]
Rhode Island	[illegible]	[illegible]	[illegible]	[illegible]
South Carolina	[illegible]	[illegible]	[illegible]	[illegible]
South Dakota	[illegible]	[illegible]	[illegible]	[illegible]
Tennessee	[illegible]	[illegible]	[illegible]	[illegible]
Texas	[illegible]	[illegible]	[illegible]	[illegible]
Utah	[illegible]	[illegible]	[illegible]	[illegible]
Vermont	[illegible]	[illegible]	[illegible]	[illegible]
Virginia	[illegible]	[illegible]	[illegible]	[illegible]
Washington	[illegible]	[illegible]	[illegible]	[illegible]
West Virginia	[illegible]	[illegible]	[illegible]	[illegible]
Wisconsin	[illegible]	[illegible]	[illegible]	[illegible]
Wyoming	[illegible]	[illegible]	[illegible]	[illegible]
Total	[illegible]	[illegible]	[illegible]	[illegible]

SECTION II—CONTRACT AWARDS—BASIC DATA—1962

This section presents the basic data as compiled; combination projects have not been apportioned. Tables of contract awards by population size groups, contract size groups, drainage basins and States are included.

The population size group tables do not refer to the population served. They represent the size of the community in which each contract was awarded. The population size groups of some contracts were unknown; these contracts consist primarily of schools, hospitals, military bases, and parks. The cumulative percentages shown in these tables are based on the known population groups.

A. SEWAGE TREATMENT WORKS CONSTRUCTION

The sewage treatment works are presented in two categories, namely, NEW PLANT and OTHER. The "NEW PLANT" classification includes stabilization ponds and appurtenances. The "OTHER" category includes replacements and additions to existing treatment plants, interceptors, and outfalls. This category also includes contracts whose costs cannot be separated between "New Plant" and "Other." Therefore, the "Other" classification may include a few new plants.

In 1961 the level of contracts awarded for construction of sewage treatment works in the United States reached a level of $547.0 million. Of this amount $483.0 million covered contracts identified as to specific location and type of construction. The following tables, 5 through 8, inclusive, relate only to contracts individually identified for sewage treatment facilities.

Lists of the locations of contract awards for sewage treatment works are available upon request. Write to Chief, Basic Data Branch, Division of Water Supply and Pollution Control, U.S. Public Health Service, Washington 25, D.C.

TABLE 5—*Contract Awards—Sewage Treatment Works Construction—1962—By Population Size Groups*

Population size group	Total				New Plants				Other[1]			
	Number	Dollars	Cumulative (percent)[2]		Number	Dollars	Cumulative (percent)[2]		Number	Dollars	Cumulative (percent)[2]	
			Number	Dollars			Number	Dollars			Number	Dollars
Unknown population size	102	55,615,700			67	3,566,554			75	9,129,696		
Under 500	108	4,414,613	7.0	0.9	59	2,595,116	12.3	2.3	66	1,819,497	6.9	0.5
500-1,000	142	9,302,310	10.4	2.7	74	5,026,174	27.9	6.8	68	3,275,146	11.2	1.4
1,000-2,500	229	25,408,130	25.4	7.8	65	10,524,324	46.0	13.7	156	14,883,816	26.1	6.6
2,500-5,000	190	37,826,620	44.4	15.3	71	13,261,211	62.0	27.4	122	24,565,709	35.6	11.6
5,000-10,000	165	41,530,717	57.3	20.2	70	14,694,979	75.5	45.9	139	26,875,738	45.0	20.3
10,000-25,000	167	57,977,652	69.7	30.4	62	23,068,052	86.4	62.4	143	34,796,250	63.0	35.3
25,000-50,000	103	61,479,620	79.7	43.1	22	12,062,493	95.1	74.1	68	35,617,101	71.0	35.9
50,000-100,000	67	39,439,423	83.3	50.4	13	11,649,373	95.5	86.0	49	17,491,032	77.4	45.9
100,000-250,000	68	53,245,662	88.2	63.0	15	15,585,653	98.2	98.0	73	36,659,984	84.4	55.9
250,000 and over	180	102,173,404	100.0	100.0	16	6,673,650	100.0	100.0	162	115,333,479	100.0	100.0
Total	1,472	440,633,699			540	135,672,164			1,112	330,555,454		

[1] Interceptors, outfalls; additions, enlargements, and alterations to plants, etc. [2] Cumulative percentages are based on the known population groups.

TABLE 6.—*Contract Awards—Sewage Treatment Works Construction—1962—Contract Size Groups*

Contract size group (dollars)	Total				New Plants				Other[1]			
	Number	Dollars	Cumulative (percent)		Number	Dollars	Cumulative (percent)		Number	Dollars	Cumulative (percent)	
			Number	Dollars			Number	Dollars			Number	Dollars
Under 25,000	110	673,279	6.9	0.1	65	329,893	7.1	0.2	70	665,351	6.8	0.1
25,000–37,499	228	5,673,109	20.4	0.9	87	1,313,264	25.0	1.1	149	3,391,899	19.3	0.7
37,500–49,999	240	10,209,963	37.1	2.0	102	3,891,031	43.7	4.0	173	6,209,342	34.9	2.0
50,000–99,999	284	21,477,065	54.7	5.0	116	7,668,310	61.3	10.3	198	13,365,705	53.4	4.1
100,000–249,999	413	59,464,845	75.7	15.1	148	33,735,637	86.2	25.6	265	59,749,208	75.4	12.6
250,000–499,999	244	73,702,804	87.9	28.2	53	18,833,130	95.0	42.8	149	54,979,774	89.9	31.2
500,000–1,000,000	123	84,627,044	95.1	41.3	63	29,222,139	97.7	67.4	76	55,455,301	95.8	43.4
1,000,000–2,499,999	73	110,063,924	99.3	97.3	10	23,314,778	99.3	67.7	63	123,749,819	99.4	70.7
Over 2,499,999	6	88,966,113	100.0	100.0	2	14,332,865	100.0	100.0	7	78,366,229	100.0	100.0
Total	1,472	493,451,626			689	140,452,166			1,152	395,466,456		

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

TABLE 7.—*Contract Awards—Sewage Treatment Works Construction—1962—By Drainage Basins*

Drainage basin	Total		New Plants		Other[1]	
	Number	Dollars	Number	Dollars	Number	Dollars
Northeast	151	67,225,116	30	16,735,580	61	30,761,270
North Atlantic	197	77,386,262	72	18,862,716	125	62,815,125
Southeast	192	55,454,153	75	15,116,266	117	22,869,210
Tennessee River	21	3,373,241	15	1,289,741	6	1,245,468
Ohio River	190	55,480,461	77	23,077,150	113	32,413,929
Lake Erie	23	3,388,152	6	1,037,803	17	2,450,217
Upper Mississippi	126	62,175,775	78	9,255,699	120	65,676,913
Western Great Lakes	84	73,552,268	18	6,775,639	66	66,776,529
Missouri River	150	23,713,226	70	8,728,402	80	14,985,628
Southwest Lower Mississippi	151	13,478,163	55	6,633,134	106	13,244,979
Colorado River	22	4,980,167	2	316,353	20	4,773,356
Western Gulf	150	13,107,913	39	8,922,463	73	13,185,390
Pacific Northwest	85	83,575,285	26	15,730,398	62	10,525,076
California	153	33,253,287	34	5,859,993	80	47,746,166
Great Basin	15	5,493,226	3	316,320	6	5,815,468
Alaska	3	6,173			3	6,173
Hawaii	13	6,375,350	3	5,417,609	12	5,853,788
Puerto Rico	10	5,997,202	2	570,251	8	5,341,183
Total	1,472	493,451,626	689	140,452,166	1,152	395,466,456

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

TABLE 8.—*Contract Awards—Sewage Treatment Works Construction—1962—By States*

State	Total		New Plants		Other [1]	
	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	22	3,174,090	2	691,758	17	2,482,332
Alaska	1	6,170			1	6,170
Arizona	5	1,764,348			5	1,764,348
Arkansas	37	2,376,835	14	537,737	23	1,839,098
California	117	51,935,231	19	3,489,095	98	48,446,136
Colorado	17	2,357,852	7	1,072,960	10	1,284,892
Connecticut	13	7,071,011	5	4,548,118	8	2,522,893
Delaware	6	1,648,399			6	1,648,399
District of Columbia	12	12,014,927			12	12,014,927
Florida	50	10,461,870	22	3,395,992	28	7,065,878
Georgia	19	4,566,839	4	2,422,701	15	2,144,138
Hawaii	15	6,371,393	3	2,417,600	12	3,953,793
Idaho	6	937,001	3	783,205	3	153,796
Illinois	93	28,353,164	24	3,276,849	69	25,076,315
Indiana	43	35,509,261	15	2,891,152	28	32,618,109
Iowa	42	4,668,956	17	1,283,915	25	3,385,041
Kansas	31	3,368,875	14	547,311	17	2,821,564
Kentucky	23	3,546,254	8	1,083,760	15	2,462,494
Louisiana	36	9,302,077	10	1,730,935	26	7,571,142
Maine	7	1,380,505	3	815,640	4	564,865
Maryland	23	3,501,166	4	196,591	19	3,304,575
Massachusetts	26	15,119,996			26	15,119,996
Michigan	42	44,371,355	7	4,403,956	35	39,967,399
Minnesota	32	4,887,552	15	2,615,958	17	2,271,594
Mississippi	31	3,786,071	13	880,163	18	2,905,908
Missouri	45	7,402,045	18	2,006,584	27	5,395,461
Montana	9	2,759,089	2	998,464	7	1,760,625
Nebraska	59	8,924,628	25	1,334,939	34	7,589,689
Nevada	13	2,068,208			13	2,068,208
New Hampshire	8	1,454,611	1	46,153	7	1,408,458
New Jersey	31	7,271,203	15	4,214,425	16	3,056,778
New Mexico	9	2,725,493	3	494,110	6	2,231,383
New York	72	42,839,920	22	4,789,355	50	38,050,565
North Carolina	59	12,157,083	23	4,788,893	36	7,368,190
North Dakota	14	781,784	5	33,449	9	748,335
Ohio	51	17,099,431	15	10,177,072	36	6,922,359
Oklahoma	43	2,343,615	13	310,606	30	2,033,009
Oregon	33	4,228,589	8	761,868	25	3,466,721
Pennsylvania	114	22,453,010	64	12,947,228	50	9,505,782
Puerto Rico	10	2,697,252	2	156,211	8	2,541,041
Rhode Island	1	13,474			1	13,474
South Carolina	23	2,446,648	9	616,356	14	1,830,292
South Dakota	10	1,112,842	6	801,954	4	307,888
Tennessee	36	6,162,485	18	3,683,496	18	2,478,989
Texas	94	14,854,044	27	4,454,699	67	10,399,345
Utah	5	1,001,102	2	914,326	3	86,776
Vermont	5	1,740,901	2	1,048,403	3	692,498
Virginia	48	7,582,664	17	2,568,448	31	5,014,216
Washington	43	22,735,460	13	11,192,672	30	11,542,788
West Virginia	31	8,022,626	15	4,541,089	16	3,481,537
Wisconsin	54	17,536,149	19	4,982,998	35	12,553,151
Wyoming	3	140,274			3	140,274
Total	1,672	483,035,828	560	116,952,194	1,112	366,083,634

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

9. COLLECTING SEWER CONSTRUCTION

Collecting sewer construction for 1962 totaled $320.2 million. Tables 9, 10, and 11 analyze the contract award data which was specified as purely collecting sewers (i.e., $281.9 million), and do not reflect any portion of the combination projects. The tabulation of the collecting sewer contract awards by States appears in table 3 of section I.

The collecting sewer classification does *not* include storm sewers.

TABLE 9.—*Contract Awards—Collecting Sewer Construction—By Population Size Groups*

Population size group	Collecting sewers			
	Number	Dollars	Cumulative percent[1]	
			Number	Dollars
Unknown population size	135	4,945,160		
Under 500	51	4,596,526	1.7	1.7
500–1,000	86	8,383,124	4.6	4.7
1,000–2,500	166	15,861,364	10.2	10.4
2,500–5,000	196	17,714,569	16.8	16.8
5,000–10,000	281	27,851,599	26.2	26.9
10,000–25,000	449	36,214,859	41.2	40.0
25,000–50,000	304	30,077,004	51.4	50.9
50,000–100,000	334	24,226,655	62.6	59.6
100,000–250,000	324	29,517,585	73.4	70.3
250,000 and over	796	82,496,121	100.0	100.0
Total	3,122	281,884,626		

[1] Cumulative percentages are based on the known population groups.

TABLE 10.—*Contract Awards—Collecting Sewer Construction—By Contract Size Groups*

Contract size group (dollars)	Collecting sewers			
	Number	Dollars	Cumulative percent	
			Number	Dollars
Under 10,000	584	3,095,909	18.7	1.1
10,000–25,000	758	12,544,521	43.0	5.6
25,000–50,000	556	20,022,495	60.8	12.7
50,000–100,000	517	38,011,038	77.4	26.2
100,000–250,000	446	67,457,215	91.7	50.1
250,000–500,000	171	58,721,393	97.2	70.9
500,000–1,000,000	71	48,333,102	99.5	88.0
1,000,000–5,000,000	18	25,802,305	99.9	97.2
Over 5,000,000	1	7,896,648	100.0	100.0
Total	3,122	281,884,626		

TABLE 11.—*Contract Awards—Collecting Sewer Construction—1962—By Drainage Basin*

Drainage basin	Collecting sewers		Drainage basin	Collecting sewers	
	Number	Dollars		Number	Dollars
Northeast	284	26,040,477	Colorado River	40	4,006,529
North Atlantic	399	47,934,577	Western Gulf	231	19,006,244
Southeast	173	22,630,345	Pacific Northwest	113	13,221,591
Tennessee River	25	4,685,151	California	515	29,714,329
Ohio River	278	29,126,593	Great Basin	23	2,288,287
Lake Erie	93	9,519,449	Alaska	5	910,448
Upper Mississippi	297	28,710,062	Hawaii	6	896,626
Western Great Lakes	240	23,472,828	Puerto Rico	1	36,116
Missouri River	249	11,929,728			
Southwest Lower Mississippi	150	7,755,244	Total	3,122	281,884,626

C. WATER WORKS CONSTRUCTION

The water works data are broken down into four categories, namely, SOURCE, TREATMENT, DISTRIBUTION, and MISCELLANEOUS. The "SOURCE" group includes contracts awarded for wells, surface source development, and transmission lines. The "TREATMENT" area includes contracts for plants and auxiliary facilities. The "DISTRIBUTION" category includes contracts for ground storage, elevated tanks, and distribution systems. The "MISCELLANEOUS" classification includes contracts for pumping facilities and for water systems in general. When it is not possible to code a contract that is known to pertain to water into source, treatment, or distribution then it is included in the totals for miscellaneous.

Contract awards for water works construction in 1962, including an apportioned amount from the combination contracts, totaled $507.3 million. The tables following refer only to contracts that pertain exclusively to water works (i.e., $488.6 million).

TABLE 12.—*Contract Awards—Water Works Construction—1962—By Population Size Groups*

Population size group	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Unknown population size	342	16,966,178	106	2,348,959	18	3,011,209	139	6,413,380	79	5,192,630
Under 500	261	20,906,747	55	7,078,913	17	3,165,512	129	6,673,785	57	3,988,537
500–1,000	239	12,528,355	50	1,577,304	19	1,005,372	134	8,451,525	36	1,494,154
1,000–2,500	392	32,690,461	69	13,300,073	32	2,907,520	228	10,815,013	63	5,667,855
2,500–5,000	374	29,070,734	59	4,401,820	24	9,124,676	237	10,984,936	54	4,559,302
5,000–10,000	444	42,090,849	69	6,551,390	30	6,602,281	282	20,081,876	63	8,855,302
10,000–25,000	643	80,080,479	112	24,085,468	36	15,657,563	402	29,338,933	93	11,007,485
25,000–50,000	416	51,752,412	80	19,177,862	24	5,969,480	258	19,184,921	54	7,420,149
50,000–100,000	297	61,698,353	58	18,870,581	15	12,640,205	187	17,755,702	37	12,431,865
100,000–250,000	258	34,697,497	61	16,167,309	9	1,492,810	159	12,892,961	29	4,144,327
250,000 and over	704	106,071,502	99	44,333,562	17	11,324,929	525	40,819,881	63	9,593,130
Total	4,370	488,502,567	821	157,893,331	241	72,901,587	2,680	183,412,913	628	74,354,736

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 12A.—*Contract Awards—Water Works Construction—1962—By Population Size Groups (Accumulated Percentages)*

Population size group	Total cumulative (percent)		Source cumulative (percent)		Treatment cumulative (percent)		Distribution cumulative (percent)		Miscellaneous [1] cumulative (percent) [2]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Unknown population size										
Under 500	6.5	4.4	8.1	4.6	7.6	4.5	5.1	3.8	10.4	5.8
500–1,000	12.4	7.1	15.1	5.6	16.1	5.9	10.4	8.6	17.0	8.0
1,000–2,500	22.1	14.0	24.8	14.2	30.4	10.1	19.4	14.7	28.5	16.2
2,500–5,000	31.4	20.2	33.1	17.0	41.2	23.2	28.7	20.9	38.3	22.8
5,000–10,000	42.4	29.1	42.8	21.2	54.7	32.6	39.8	32.2	49.8	35.6
10,000–25,000	58.4	46.1	58.5	36.7	70.8	55.0	55.6	48.8	66.7	51.5
25,000–50,000	68.7	57.1	69.7	49.0	81.6	63.5	65.8	59.6	76.5	62.2
50,000–100,000	76.1	70.2	77.8	61.1	88.3	81.6	73.2	69.6	83.2	80.2
100,000–250,000	82.5	77.6	86.3	71.5	92.9	83.7	79.5	76.9	88.5	86.2
250,000 and over	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.
[2] Cumulative percentages are based on the known population groups.

TABLE 13.—*Contract Awards—Water Works Construction—1962—By Contract Size Groups*

Contract size group (dollars)	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	738	3,799,618	178	882,186	11	78,548	467	2,395,920	79	442,934
10,000–25,000	1,038	16,935,641	214	3,404,548	36	606,554	663	10,901,072	125	2,023,467
25,000–50,000	807	28,819,067	119	4,313,041	41	1,466,687	526	18,599,164	121	4,440,115
50,000–100,000	858	60,489,903	109	7,842,004	41	2,919,246	575	40,267,286	133	9,461,367
100,000–250,000	546	85,725,717	73	11,829,671	47	7,815,308	320	49,360,622	106	16,720,216
250,000–500,000	224	77,240,507	59	21,634,705	31	10,912,769	97	32,804,466	37	12,488,427
500,000–1,000,000	94	65,150,831	36	25,983,613	15	9,994,525	23	15,510,571	20	13,662,122
1,000,000–5,000,000	59	100,366,071	30	49,481,501	14	28,414,097	9	13,573,812	6	8,896,058
Over 5,000,000	6	50,635,472	3	33,122,059	2	10,693,413			1	6,220,000
Total	4,370	488,562,567	821	157,893,331	241	72,901,587	2,680	183,412,913	628	74,354,736

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 13A.—*Contract Awards—Water Works Construction—1962—By Contract Size Groups (Accumulated Percentages)*

Contract size group (dollars)	Total cumulative (percent)		Source cumulative (percent)		Treatment cumulative (percent)		Distribution cumulative (percent)		Miscellaneous [1] cumulative (percent)	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	16.9	0.8	21.7	0.6	5.8	0.1	17.4	1.3	12.6	0.6
10,000–25,000	40.7	4.3	47.8	2.8	20.7	0.9	42.1	7.2	32.5	3.3
25,000–50,000	59.2	10.2	62.3	5.5	37.7	2.9	61.7	17.3	51.8	9.3
50,000–100,000	78.8	22.6	75.6	10.5	54.7	6.9	83.2	39.3	73.0	22.0
100,000–250,000	91.3	40.1	84.5	18.0	74.2	17.6	95.1	66.2	89.9	44.5
250,000–500,000	96.4	55.9	91.7	31.3	87.1	32.6	98.7	84.1	95.8	61.3
500,000–1,000,000	98.6	69.2	96.1	47.8	93.3	46.3	99.6	92.6	99.0	79.7
1,000,000–5,000,000	99.9	89.7	99.8	79.1	99.1	85.3	100.0	100.0	99.9	91.7
Over 5,000,000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 14.—*Contract Awards—Water Works Construction—1962—By Drainage Basins*

Drainage basin	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Northeast	379	23,535,184	67	6,296,763	15	1,081,409	242	12,354,308	55	3,802,704
North Atlantic	474	69,014,520	79	31,765,928	19	10,579,061	319	20,745,768	57	5,923,763
Southeast	374	41,547,006	76	8,418,225	36	8,880,656	202	16,971,944	60	7,276,181
Tennessee River	46	7,054,161	7	849,206	3	378,536	29	3,144,063	7	2,682,356
Ohio River	396	52,523,276	60	4,441,419	42	8,340,852	245	13,973,789	49	5,767,216
Lake Erie	94	11,950,825	10	4,141,746	9	2,547,636	68	4,262,562	7	998,881
Upper Mississippi	413	40,787,991	97	3,274,578	28	10,861,278	228	19,471,139	60	7,180,996
Western Great Lakes	283	39,698,998	70	14,221,447	9	7,100,399	184	15,879,310	20	2,487,842
Missouri River	323	31,310,749	66	10,222,063	30	5,163,769	180	11,927,764	47	3,996,553
Southwest Lower Mississippi	316	29,092,854	60	5,392,373	21	7,184,504	188	11,181,180	47	5,104,797
Colorado River	75	8,827,080	17	3,034,606	2	321,741	31	3,086,684	22	2,384,059
Western Gulf	469	40,978,173	61	14,343,418	10	1,720,615	347	20,715,518	51	4,189,622
Pacific Northwest	180	16,978,502	26	3,925,313	3	1,184,785	111	9,058,538	40	2,809,956
California	490	85,734,074	111	44,867,284	10	5,771,669	269	17,749,407	90	17,345,714
Great Basin	39	2,715,766	7	342,510	2	285,190	23	1,622,928	7	465,138
Alaska	13	4,114,687	2	1,624,155	2	1,490,487	6	646,045	3	354,000
Hawaii	16	2,738,621	5	531,697			5	621,966	6	1,584,958
Total	4,370	488,562,567	821	157,893,331	241	72,901,587	2,680	183,412,913	628	74,354,736

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 15.—*Contract Awards—Water Works Construction—1962—By States*

State	Total		Source		Treatment		Distribution		Miscellaneous[1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	49	5,337,731	9	335,971	3	360,200	28	2,010,453	9	2,631,107
Alaska	13	4,114,687	2	1,624,155	2	1,490,487	6	646,045	3	354,000
Arizona	35	4,438,824	6	1,277,405	1	297,741	21	1,877,991	7	985,687
Arkansas	39	2,622,350	7	253,936	2	255,629	21	1,041,013	9	1,071,772
California	499	86,262,657	115	44,918,843	12	6,056,859	284	18,123,622	88	16,863,313
Colorado	78	17,219,909	16	6,622,532	12	4,431,025	35	5,029,616	15	1,136,736
Connecticut	35	3,874,169	11	2,758,943	1	63,890	17	909,776	6	141,560
Delaware	4	62,536	1	925			2	35,411	1	26,200
District of Columbia	5	147,091					5	147,091		
Florida	110	11,754,715	26	2,163,868	13	2,894,432	44	3,809,347	27	2,887,068
Georgia	62	4,523,801	12	1,392,889	4	911,090	40	1,269,678	6	950,147
Hawaii	16	2,738,621	5	531,697			5	621,966	6	1,584,958
Idaho	12	1,654,450	5	137,459			2	299,651	5	1,217,340
Illinois	187	19,829,029	31	2,076,005	15	6,466,294	116	6,353,838	25	4,932,892
Indiana	82	12,791,172	14	2,290,301	7	5,997,125	50	2,743,300	11	1,760,446
Iowa	63	5,292,514	18	501,222	10	2,476,306	24	1,353,160	11	961,826
Kansas	88	5,073,211	12	1,469,146	7	212,498	54	2,933,471	15	458,096
Kentucky	59	7,226,951	6	1,288,146	10	2,362,181	37	2,608,507	6	878,117
Louisiana	55	4,978,338	19	1,304,302	3	387,974	30	2,934,165	3	351,897
Maine	6	249,455			1	29,840	4	202,185	1	17,130
Maryland	63	10,709,200	10	6,771,647	1	300,450	48	3,066,017	4	571,086
Massachusetts	126	6,549,281	24	914,962	1	104,418	77	4,343,370	21	1,186,531
Michigan	158	24,573,981	43	11,712,773	5	876,872	97	9,669,670	13	2,314,666
Minnesota	115	11,961,354	32	438,848	5	2,243,691	67	8,462,314	11	816,501
Mississippi	56	6,268,671	22	2,463,262	3	222,454	24	3,233,646	7	349,309
Missouri	101	9,968,721	25	1,426,226	10	711,038	54	6,861,626	12	969,831
Montana	10	935,149	3	112,607	1	5,500	3	401,088	3	405,954
Nebraska	102	2,725,277	15	348,072	2	147,955	69	1,811,477	16	427,773
Nevada	18	2,254,031	10	1,743,101			2	83,716	6	427,214
New Hampshire	8	326,522	2	36,767	1	13,200	5	276,555		
New Jersey	78	15,547,628	15	3,789,696	6	6,418,897	40	2,823,765	17	2,515,270
New Mexico	6	536,456	2	292,550			3	141,662	1	122,244
New York	353	40,416,218	57	23,089,151	17	2,866,934	248	11,798,102	31	2,662,031
North Carolina	69	7,843,533	14	1,861,934	5	954,242	43	4,207,819	7	819,538
North Dakota	19	491,687	3	56,700	1	3,798	13	415,709	2	15,330
Ohio	204	18,902,890	34	5,068,745	20	3,864,831	132	8,380,411	18	1,588,873
Oklahoma	99	11,147,462	14	1,500,900	9	4,963,071	67	3,358,757	9	1,324,734
Oregon	39	3,720,880	2	489,884			26	2,899,931	11	331,065
Pennsylvania	191	15,880,162	31	1,735,887	9	3,933,130	125	7,525,428	26	2,685,717
Rhode Island	13	428,972	1	66,500			9	269,562	3	92,820
South Carolina	52	8,849,831	5	499,126	8	3,538,238	30	2,882,406	9	1,929,971
South Dakota	21	932,664	6	158,828	2	185,877	10	530,953	3	57,006
Tennessee	72	9,100,270	4	906,996	9	2,149,811	53	4,744,678	6	1,298,785
Texas	490	42,935,808	63	14,729,704	10	1,729,615	360	21,405,570	57	5,072,919
Utah	21	2,292,884	3	290,951			12	1,298,554	6	733,379
Vermont	5	381,206	2	34,401			2	143,408	1	203,337
Virginia	54	4,437,526	6	146,843			37	3,313,839	11	946,844
Washington	131	11,621,802	19	3,297,970	3	1,184,785	83	5,858,956	26	1,280,091
West Virginia	32	3,295,388	6	361,260	4	477,460	13	1,314,198	9	1,142,470
Wisconsin	156	8,969,465	30	651,950	6	1,311,749	102	6,409,892	18	595,874
Wyoming	11	4,405,484	3	1,947,195			1	141,008	7	2,317,281
Total	4,370	488,562,567	821	157,893,331	241	72,901,587	2,680	183,412,913	628	74,354,736

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

D. COMBINATION CONSTRUCTION

Combination contracts are made up of projects that cover more than one of the three major categories: (1) Sewage treatment; (2) collecting sewers; and (3) water works. The combination contract awards by States appear in table 3 of section 1.

TABLE 16.—*Contract Awards—Combination Construction—1962—By Population Size Groups*

Population size group	Combinations [1]			
	Number	Dollars	Cumulative Percent	
			Number	Dollars
Unknown population size	100	8,606,165	.....	.....
Under 500	26	2,681,202	2.6	2.4
500–1,000	34	2,568,151	6.0	4.7
1,000–2,500	50	4,301,332	11.0	8.8
2,500–5,000	74	11,482,225	18.4	19.2
5,000–10,000	69	9,548,033	25.3	27.8
10,000–25,000	123	20,415,705	37.6	46.3
25,000–50,000	86	8,860,939	46.2	54.3
50,000–100,000	73	14,855,607	53.5	67.7
100,000–250,000	82	7,349,369	61.7	74.4
250,000 and over	379	28,217,110	100.0	100.0
Total	1,096	119,085,798	.....	.....

[1] This includes contracts whose descriptive information covers more than a single category of construction (e.g., sewage treatment, sewers, or water works).

Cumulative percentages are based on the known population groups.

TABLE 17.—*Contract Awards—Combination Construction—1962—By Contract Size Groups*

Contract size group (Dollars)	Combinations [1]			
	Number	Dollars	Cumulative (Percent)	
			Number	Dollars
Under 10,000	149	876,750	13.6	0.7
10,000–25,000	285	4,759,217	39.6	4.7
25,000–50,000	217	7,797,542	59.4	11.2
50,000–100,000	192	13,579,569	76.9	22.6
100,000–250,000	150	22,644,865	90.6	41.6
250,000–500,000	59	19,901,175	96.0	58.3
500,000–1,000,000	26	17,084,784	98.4	72.6
1,000,000–5,000,000	18	32,441,896	100.0	100.0
Over 5,000,000	.....	.....	100.0	100.0
Total	1,096	119,085,798	.....	.....

[1] This includes contracts whose descriptive information covers more than a single category of construction (e.g., sewage treatment, sewers, or water works).

TABLE 18.—*Contract Awards—Combination Construction—1962—By Drainage Basins*

Drainage Basin	Combinations [1]		Drainage Basin	Combinations [1]	
	Number	Dollars		Number	Dollars
Northeast	48	6,493,282	Colorado River	12	1,260,614
North Atlantic	372	35,194,093	Western Gulf	105	10,938,387
Southeast	104	17,923,991	Pacific Northwest	15	1,412,391
Tennessee River	2	77,545	California	72	12,087,977
Ohio River	45	4,801,502	Great Basin	5	308,664
Lake Erie	11	1,611,087	Alaska	1	50,459
Upper Mississippi	110	8,662,081	Hawaii	4	217,812
Western Great Lakes	90	9,438,158	Puerto Rico	1	348,408
Missouri River	42	3,305,321			
Southwest Lower Mississippi	48	4,954,036	Total	1,096	119,085,798

[1] This includes contracts whose descriptive information covers more than one single category of construction (e.g., sewage treatment, sewers, or water works).

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